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APPLICATION NO.	FILING DATE	FIRST NAMED	INVENTOR		ATTORNEY DOCKET NO.
09/265,946	03/11/99	HUSSEINI		N C	32391-002
TAIC TAIC		PM82/1117	コ	SEMUNEGU	EXAMINER JS,L
AMTECH, INC. BUILDING 935 STENNIS SPACE	<u> </u>	MS 38529-7099		ART UNIT	PAPER NUMBER
				DATE MAILED:	11/17/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trad marks

1- File Copy

PTO-90C (Rev 2/95)

	Application No.	Applicant(s)						
Offic Action Summary	09/265,946	HUSSEINI ET AL.						
Ome Action Summary	Examiner	Art Unit						
•	Lulit Semunegus	3641						
The MAILING DATE of this communication appe Period for Reply	ears on the cover sheet with the co	orrespondence ad	idress					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.	Y IS SET TO EXPIRE 3 MONTH	(S) FROM						
 Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this commun If the period for reply specified above is less than thirty (30) day be considered timely. If NO period for reply is specified above, the maximum statutor communication. Failure to reply within the set or extended period for reply will, it 	ication. ys, a reply within the statutory minimum o y period will apply and will expire SIX (6)	f thirty (30) days will	nailing date of this					
Status	0-1-10000							
1) Responsive to communication(s) filed on <u>044</u>								
, /_	is action is non-final.							
3) Since this application is in condition for allowed closed in accordance with the practice under			tne ments is					
Disp sition of Claims								
4)⊠ Claim(s) <u>1-115</u> is/are pending in the application	on.							
4a) Of the above claim(s) 3-4,9,19,22,26 and	35-113 is/are withdrawn from cor	sideration.						
5) Claim(s) is/are allowed.								
6) Claim(s) 1,2,5-8,10-18,20,21,23-25 and 27-34	is/are rejected.							
7) Claim(s) is/are objected to.								
8) Claims are subject to restriction and/o	r election requirement.							
Application Papers								
9) The specification is objected to by the Examin	er.							
10) The drawing(s) filed on is/are objected to by the Examiner.								
11) The proposed drawing correction filed on is: a) approved b) disapproved.								
12) The oath or declaration is objected to by the E	xaminer.							
Priority under 35 U.S.C. § 119								
13) Acknowledgment is made of a claim for foreign								
a) ☐ All b) ☐ Some * c) ☐ None of the CERTIF 1. ☐ received.	FIED copies of the priority docum	ents have been:						
2. received in Application No. (Series Cod	le / Serial Number)							
3. received in this National Stage applicati	on from the International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.						
14)⊠ Acknowledgement is made of a claim for dome	estic priority under 35 U.S.C. & 1	19(e).						
Attachment(s)								
 15) Notice of References Cited (PTO-892) 16) Notice of Draftsperson's Patent Drawing Review (PTO-948) 17) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	19) Notice of Informa	ry (PTO-413) Paper I Patent Application (

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DETAILED ACTION

Election/Restrictions

1. Claims 1-2, 5-8, 10-18, 20-21, 23-25, 27-34 and 114-115 are considered. Claims 19 and 36 are not considered since applicant has elected the casing body being plastic and not combustible material according to paragraph 5 of the election requirement.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-2, 6, 11-12, 20-21, 23, 28 and 114-115 are rejected under 35
U.S.C. 102(b) as being anticipated by Grelle et al (4,614,157). Grelle et al disclose a plastic cartridge casing body (14) having a first end (11) and a second end (12) and a projectile (10) attached to the first end (11) of the cartridge casing body (fig. 2 & 3), wherein the cartridge casing body (14) is molded around at least a portion of the projectile (col. 2, lines 6-16) and the cartridge casing body follows cannelure contours of the projectile with the wall having a substantially constant thickness (col. 2, lines 27-32), wherein the cartridge casing body (14) includes a first interior portion and a second interior portion, the second portion having a smaller diameter than the first portion and being separated from the first interior portion by the shoulder, the shoulder being of sufficient size to prevent axial movement of the projectile into the second interior portion (fig. 3) and a base attached to the second end (13) and the base is a molded plastic base (col. 2, lines 14-15) and is mechanically attached (col. 1, lines 52-53).

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Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 13-18 and 29-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grelle et al (4,614,157) in view Dumortier (4,192,233). Grelle et al disclose all the limitations of claims 13-18 and 29-34 as applied to the claims 1-2, 6, 11, 12, 20-21, 23, 28 and 114-115 above, except the base is attached to the cartridge casing body by various methods of attachment. Dumortier teaches an ultrasonic welding (col. 2, line 29-31) method of attachment between a base (2) and a casing body (1) of a plastic cartridge (abstract). At the time of the invention, it would have been obvious to a person of ordinary skill in the art to attach a base and casing body using ultrasonic welding as taught by Dumortier as well as screw threads, tongue and groove arrangement, interference fit, adhesive and heat bond since these methods of attachments are well known in the art.
- 6. Claims 5, 7-8 and 24-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grelle et al (4,614,157) in view of Bell (4,572,078). Grelle et al disclose all the limitations of claims 5, 7-8 and 24-25 as applied to the claims 1-2, 6, 11, 12, 20-21, 23, 28 and 114-115 above, except a flange on the cartridge casing body. Also Grelle et al do not expressly disclose a propellant charge inside the cartridge casing body. Bell teaches a cartridge ammunition that may be used with cases made of

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plastic (col. 1, lines 58-60) where the projectile (18) is attached to the cartridge casing body (12) by a flange (16) on the cartridge casing body extending into a recess in the projectile (col. 2, lines 27-29). Furthermore, Bell teaches a propellant charge (32) inside the cartridge casing body and a primer for igniting the propellant (34). At the time of the invention, it would have been obvious to a person of ordinary skill in the art to have a flange to retain the projectile in place (col. 2, lines 28-29). It is also well known in the art to have a propellant charge in the primer as taught by Bell (col. 2, line 34).

7. Claims 10 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grelle et al (4,614,157) in view of Sabranski et al (4,928,598). Grelle et al disclose all the limitations of claims 10 and 27 as applied to the claims 1-2, 6, 11, 12, 20-21, 23, 28 and 114-115 above, except a replaceable base. Sabranski et al teaches that it is well known in the art to have a reusable base by teaching a plastic case projectile with a replaceable base (5, col. 2, lines 32-34).

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Milbank (123,352) teaches a cartridge with first and second section and a projectile attached to the first end of the cartridge casing body, wherein the cartridge casing body is around at least a portion of the projectile (fig. 4). Furthermore, European patent 0,131,863A2 teaches a plastic casing cartridge similar to applicant's disclosure (fig. 1-3).

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lulit Semunegus whose telephone number is (703) 306-5960. The examiner can normally be reached on Mon-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Jordan can be reached on (703) 306-4159. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-7687 for regular communications and (703) 305-7687 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

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November 16, 2000

Lulit Semunegus Examiner Art Unit 3641

MICHAEL J. CARONE SUPERVISORY PATENT EXAMINER